



# **UPS Monitoring Software User Manual**

# **UPS**

**CUPS600 / CUPS800**

**V1.0**

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# 1. Installation & Settings

## 1.1 Note

➤ Operating OS: Windows 2000 / XP / 2003 / Vista / 2008 / 7 / 8.

Other Software Conditions:

1. MDAC 2.8. (windows 2000 Only)

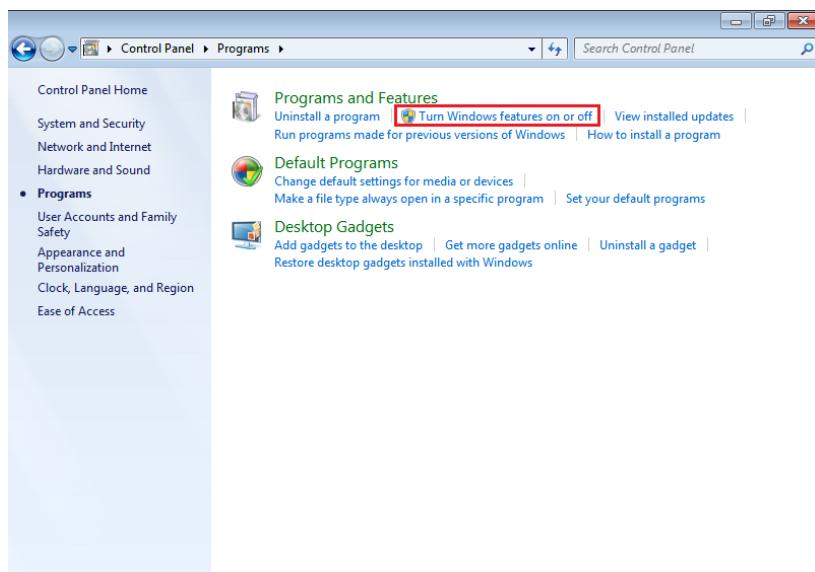
<http://www.microsoft.com/downloads/details.aspx?familyid=6C050FE3-C795-4B7D-B037-185D0506396C&displaylang=en>

2. For Windows Installer 3.0 and above.
3. For Framework 2.0 and above.

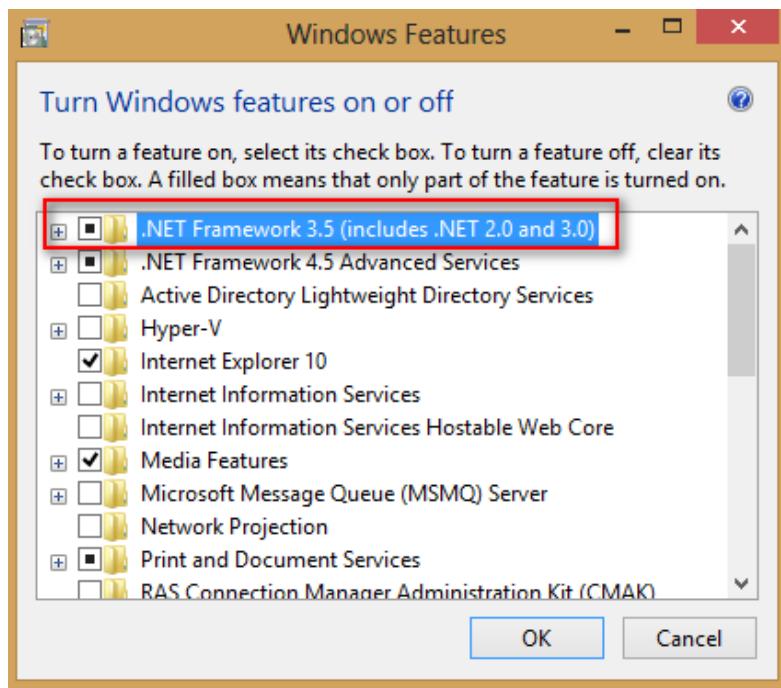
➤ Windows 8 Note :

If you use Windows 8, please follow steps below.

Step 1: Control Panel → Programs, and choose “Turn Windows features on or off”.



Step 2: Please check “.NET Framework 3.5”.



- Peripherals: Use either a serial port Connector or USB connector.

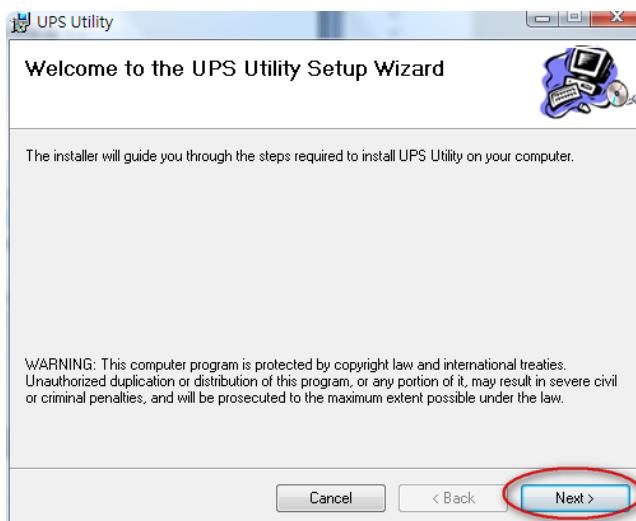
## 1.2 Installation Instructions

1.2.1 Please login as an Administrator.

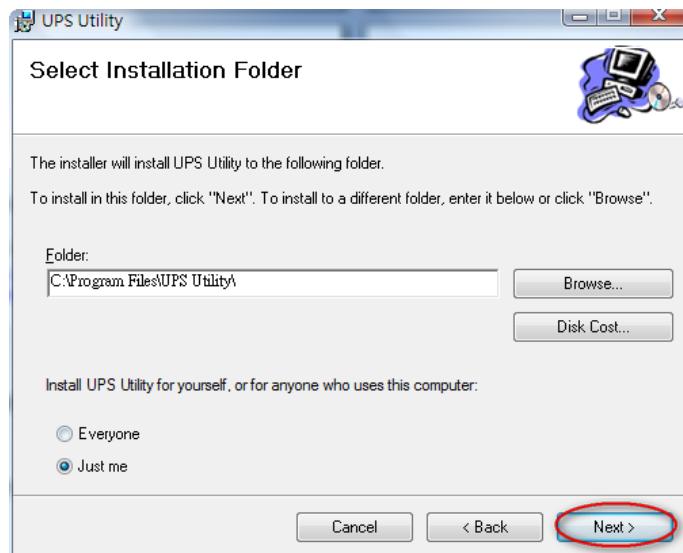
1.2.2 Double click to execute “Setup”.



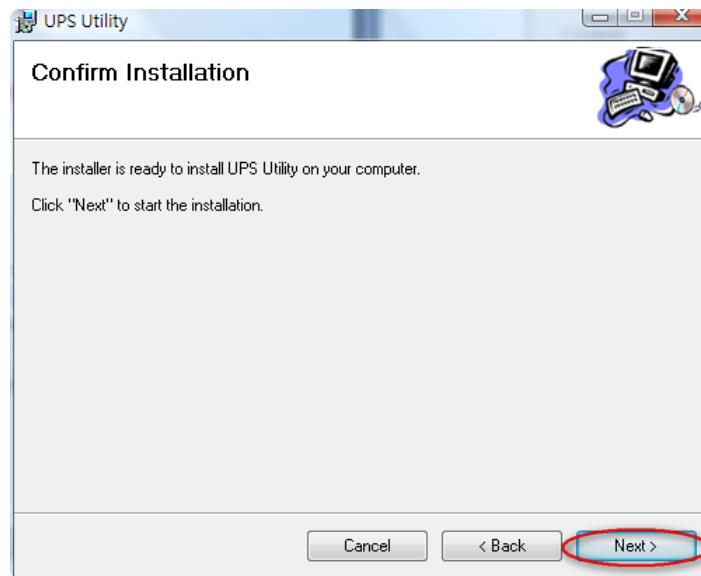
1.2.3 Click “Next” to next step.



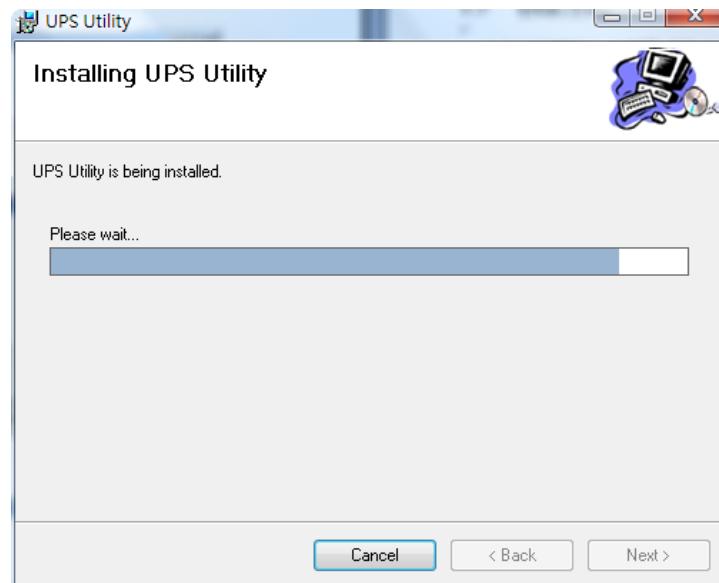
1.2.4 Enter “Select Installation Folder” to select the desire location for UPS Utility program. (Default: C:\Program Files\UPS Utility.) Choose the user (yourself or anyone) who uses this software. Click “Next” to next step.



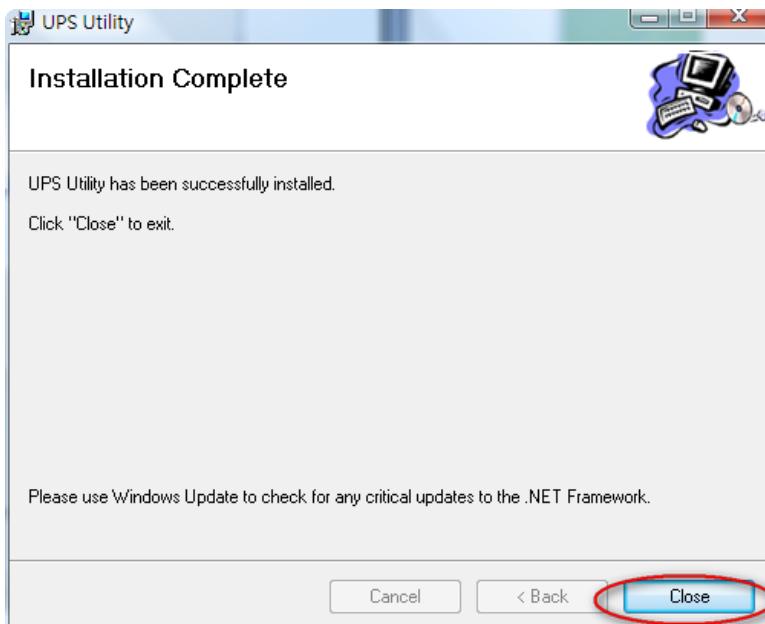
1.2.5 Enter “Confirm Installation” to ensure the completed installation of UPS Utility. Click “Next” to next step.



### 1.2.6 Installing UPS Utility program.



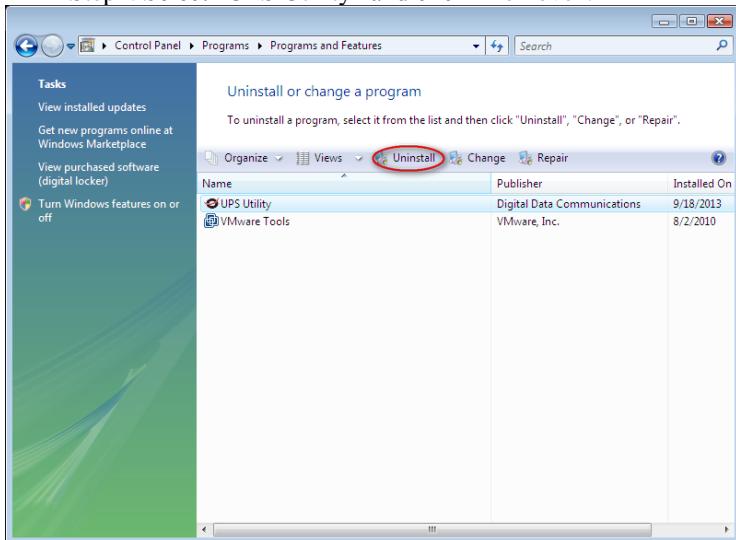
### 1.2.7 Click "Close" to end the installation.



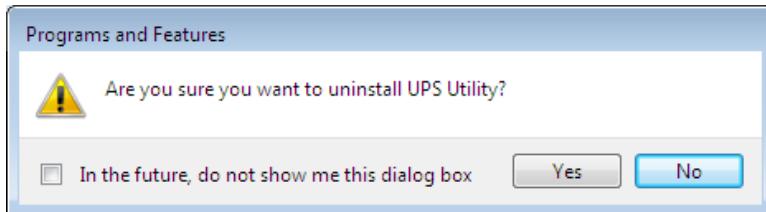
## 1.3 Instructions on Removing UPS Utility Program

### Remove UPS Utility

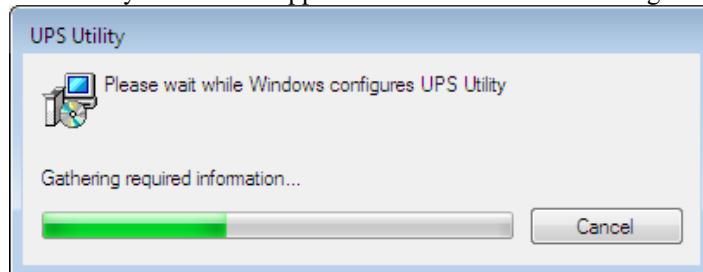
- Step1. Go to Windows Control Panel and select “Add or Remove Programs”.
- Step2. Select “UPS Utility” and click “Remove”.



- Step3. In the page shown below, click “Yes” to confirm removal of the UPS Utility or click “No” to cancel the removal.



Step4. When the progress bar run to finish, It's complete the removal.  
UPS Utility Icon will disappear in the “Add or Remove Programs” page.

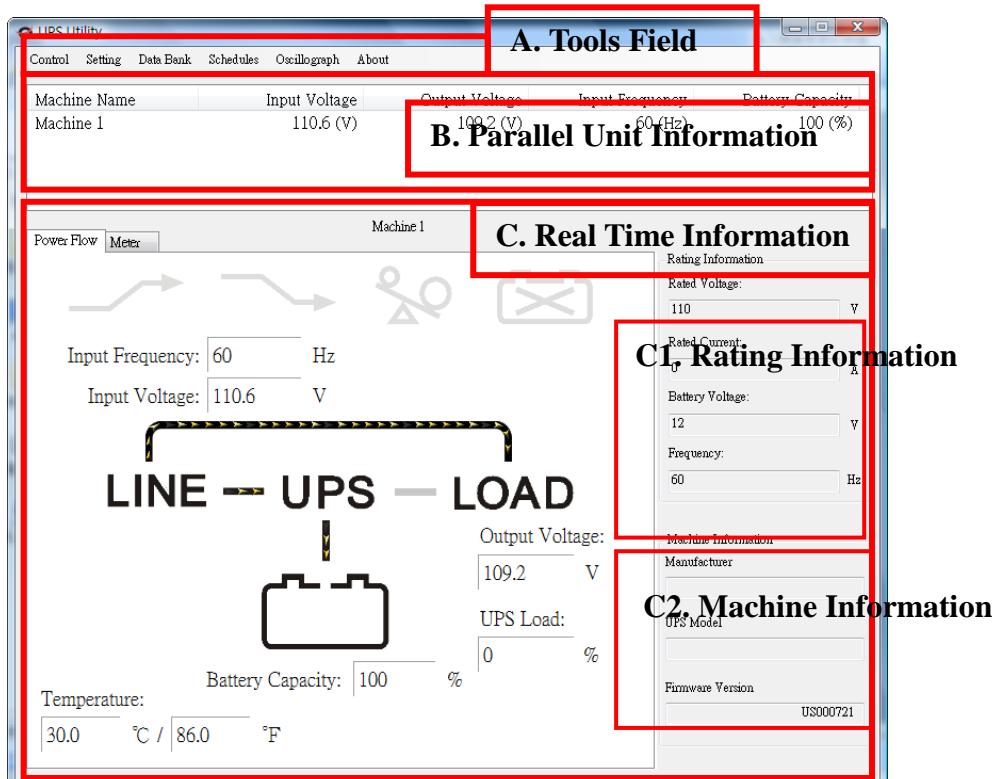


## 2. Function Descriptions

UPS Utility program is user-friendly UPS monitoring software which reveals the status of the UPS via USB or RS232 for up to 4 parallel units. It provides easy to read real time metering of important UPS parameters such as input/output voltage, frequency, UPS temperature, loads & battery capacity. These UPS parameters & status information are recorded and presented in both graphically and numerically.

The “Schedule” function of UPS Utility allows user to preset various UPS commands to perform repetition of tasks automatically. In event of Power outage or abnormality, UPS Utility program is capable of automatically informing user via SMS & email instantly and closes application software. The following chapters will provide detailed descriptions of these superior features of UPS Utility program.

### 2.1 Real-Time Information Monitoring Display



## A. Tools Field

Function	Descriptions	Remarks
Control	<p>This function include: Self Test, UPS Shutdown.</p> <p>In this function, you can send command to unit in this time.</p>	
Setting	<p>There are 3 parts in this item: “General Setting”, “SMS Setting”, And “Email Setting”.</p> <p>“General Setting”: setting of Communications, Multi language, Setting of Shutdown.</p> <p>“SMS Setting”: SMS alert function set up.</p> <p>“E-mail Setting”: E-mail alert function set up.</p>	
Data Base	<p>There are 2 parts in this item: “Event Log” And “Data Log”.</p> <p>“Event Log”: Provides a list of records of events, command entries, alarms, etc.</p> <p>“Data Log”: Stores the UPS operating parameters monitored &amp; recorded by the UPS Utility.</p>	
Schedules	Provides scheduling of to-do events and commands.	
Oscillograph	Graphical overall of the recorded UPS parameters data.	
About	Record the version number and proprietor name of the UPS Utility.	

## B. Parallel Unit Information

Provides input/output voltage, frequency, loads of UPS parameters for up to 4 parallel units at the same time.

## C. Real Time Information

When you select unit in Parallel Unit Information zone, the details of UPS parameters will show on this zone.

This zone includes: “Icon page”, “Value page”, “Rating Information”, and “Machine Information”.

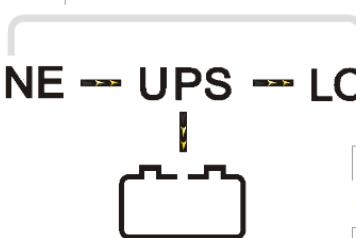
### C1. Rating Information

Provides rating information of the connected UPS such as Rating Voltage, Rating current, Battery Voltage, and Frequency.

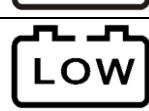
### C2. Machine Information

Provides machine information of the connected UPS such as Manufacturer, UPS Model, and Firmware Version.

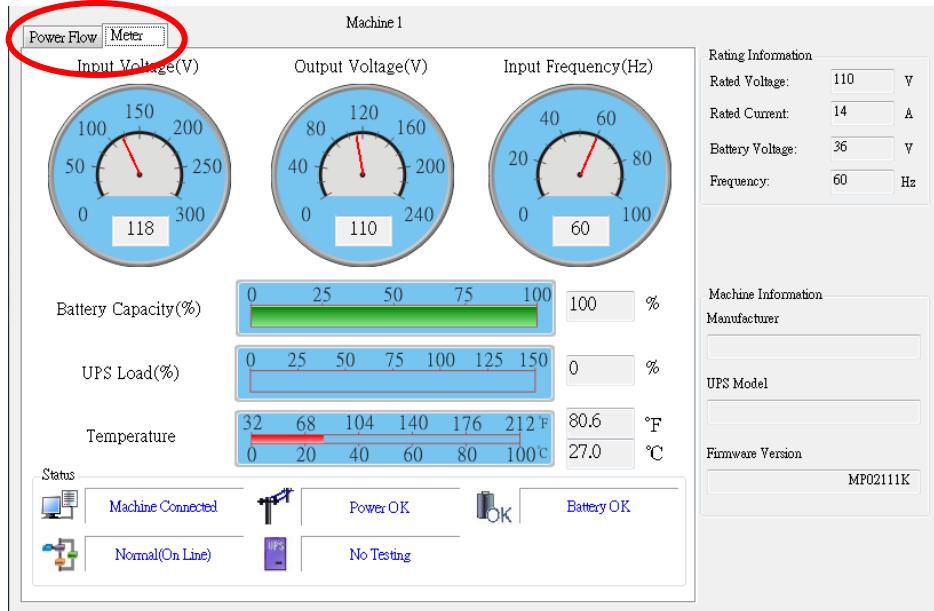
Power Flow page :

Power Flow		Meter
Machine 1		
		
Input Frequency:	59.9	Hz
Input Voltage:	118	V
Rating Information		
Rated Voltage:	110	V
Rated Current:	14	A
Battery Voltage:	36	V
Frequency:	60	Hz
Machine Information		
Manufacturer:	<input type="text"/>	
UPS Model:	<input type="text"/>	
Firmware Version:	<input type="text"/> MP02111K	
Battery Capacity:	100	%
Temperature:	27.0	°C / 80.6 °F

※ Symbols Description

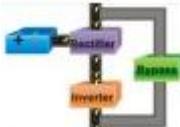
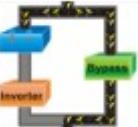
State	Symbols	Description	Remarks
Boost		Non-Boost	
		Boost	
Buck		Non-Buck	
		Buck	
Over Load		Non-Over Load	
		Over Load	
Battery State		Non-Battery Disconnect	
		Battery Disconnect	
		Battery OK	
		Battery Low	
By Pass	LINE      UPS      LOAD	Non-By Pass	
	LINE      UPS      LOAD	By Pass	

## Meter Page:

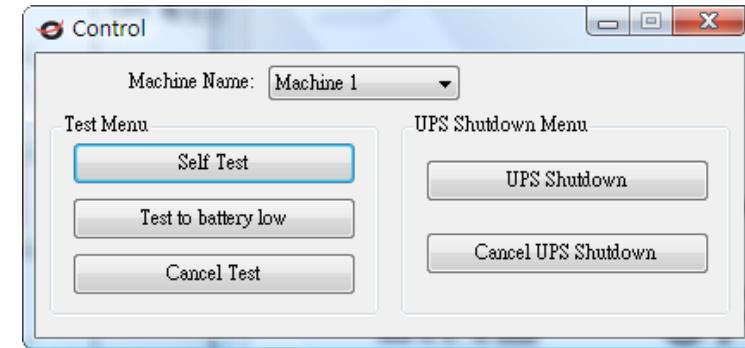


### ※ Symbols Description

State	Symbols	Description	Remarks
Connection State		UPS connected. This symbol represent when the UPS is successfully connect to the Computer.	
		UPS disconnected. The connection between the UPS & the Computer is disrupted.	
Power State		Power Supply OK.	
		Power Failure. The utility supply is absent or abnormal conditions.	

<b>UPS Battery State</b>		Battery Level OK.	
		Battery Low. The UPS battery is near to end of discharge or is at low power level. (2 Icon swap)	
		UPS Battery Failed.	
		ON LINE Model.	
<b>UPS Models</b>		OFF LINE Model.	
		UPS No Testing.	
<b>Test State</b>		UPS Testing.	
		By Pass mode.	
<b>By Pass</b>			

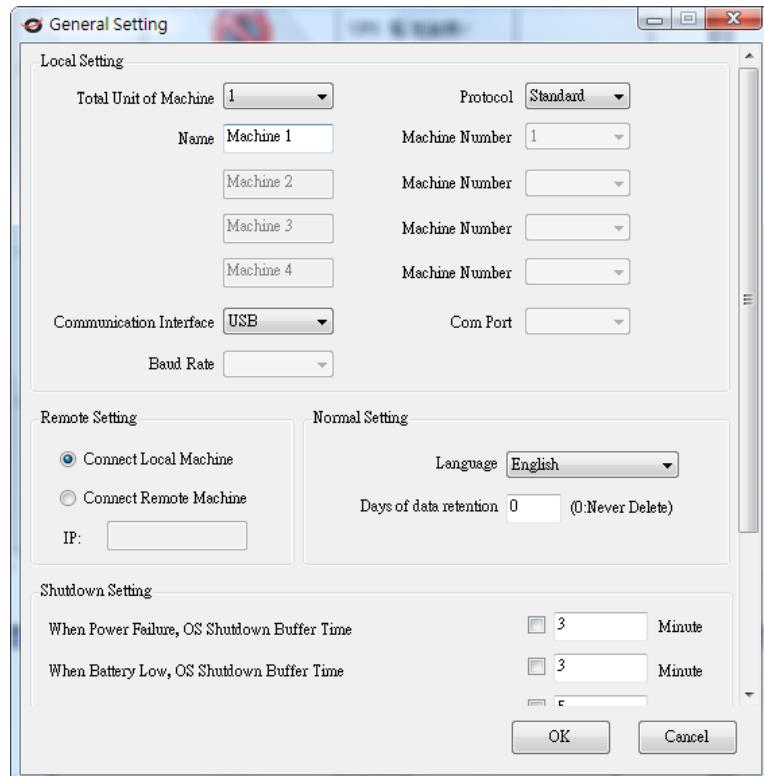
## 2.2 Control

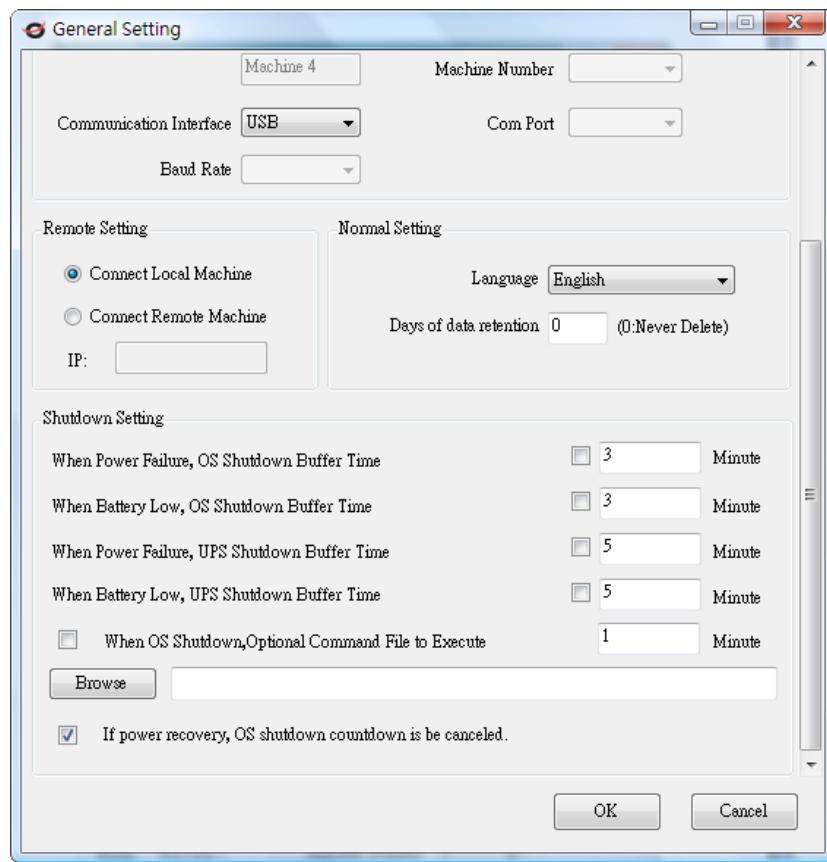


Provides command to UPS for self-test, shut-down, battery discharge test, stop test, etc.

## 2.3 General Setting

Allows user to select & set the connecting Com port or Remote, UPS or OS shutdown, etc.





### 2.3.1. Setting amount of unit, and choose the Protocol.

Total Unit of Machine:  Protocol:

### 2.3.2. Setting number of unit, and unit name which show on the Real Time Information Monitoring Display form.

Name	Machine 1	Machine Number	1
Machine 2	Machine Number	2	
Machine 3	Machine Number	3	
Machine 4	Machine Number	4	

### 2.3.3. Setting Interface and Com Port of connection.

Communication Interface: RS232  
Com Port: Com7  
Baud Rate: 2400

### 2.3.4. Language Selections

Language: English

The UPS Utility program provides various major languages for user selection. The initial start up language will be English.

### 2.3.5. Data retention setting

Days of data retention: 0 (0:Never Delete)

The period of time user intends to save the data in database. If the value is “0”, means data in database never delete.

### 2.3.6. Remote Setting

Remote Setting

Connect Local Machine

Connect Remote Machine

IP: [ ]

If you want to remote other computer, please choose “Connect Remote Machine”, and insert IP. If choose “Connect Remote Machine”, you can’t send command, scheduling and Shutdown the UPS, but can Shutdown the computer.

### 2.3.7. When Power Failure OS Shutdown Buffer Time

When Power Failure, OS Shutdown Buffer Time:  5 Minute

Select a sufficient time for the computer OS to automatically shutdown when a power outage occurred. The selectable time is from 1 min. to 99 min.

### 2.3.8. When Battery low OS Shutdown Buffer Time

When Battery Low, OS Shutdown Buffer Time	<input checked="" type="checkbox"/>	4	Minute
---	-------------------------------------	---	--------

Select a desire time to automatically shutdown the computer OS before the UPS battery power is depleted. The selectable time is from 1 min. to 99 min.

### 2.3.9. When Power Failure UPS Shutdown Buffer Time

When Power Failure, UPS Shutdown Buffer Time	<input checked="" type="checkbox"/>	3	Minute
--	-------------------------------------	---	--------

Select a desire time to automatically shutdown the UPS after a power outage occurred. A longer shutdown buffer time for OS then the UPS one is highly recommended. The selectable time is from 1 min. to 99 min.

### 2.3.10. When Battery low UPS Shutdown Buffer Time

When Battery Low, UPS Shutdown Buffer Time	<input checked="" type="checkbox"/>	2	Minute
--	-------------------------------------	---	--------

Select a desire time to automatically shutdown the UPS before the UPS battery power is depleted. A longer shutdown buffer time for OS then the UPS one is highly recommended. The selectable time is from 1 min. to 99min.

NOTE: Before UPS or OS shutdown , UPS Utility will show countdown window.



### 2.3.11 When OS Shutdown, Option Command File to Execute.

<input type="checkbox"/>	When OS Shutdown,Optional Command File to Execute	1	Minute
<input type="button" value="Browse"/>			

When OS Shutdown, how many minutes before to execute the command file. The selectable time is from 1 min. to 60 min.

2.3.12 If power recovery, OS shutdown countdown be canceled.



If power recovery, OS shutdown countdown is be canceled.



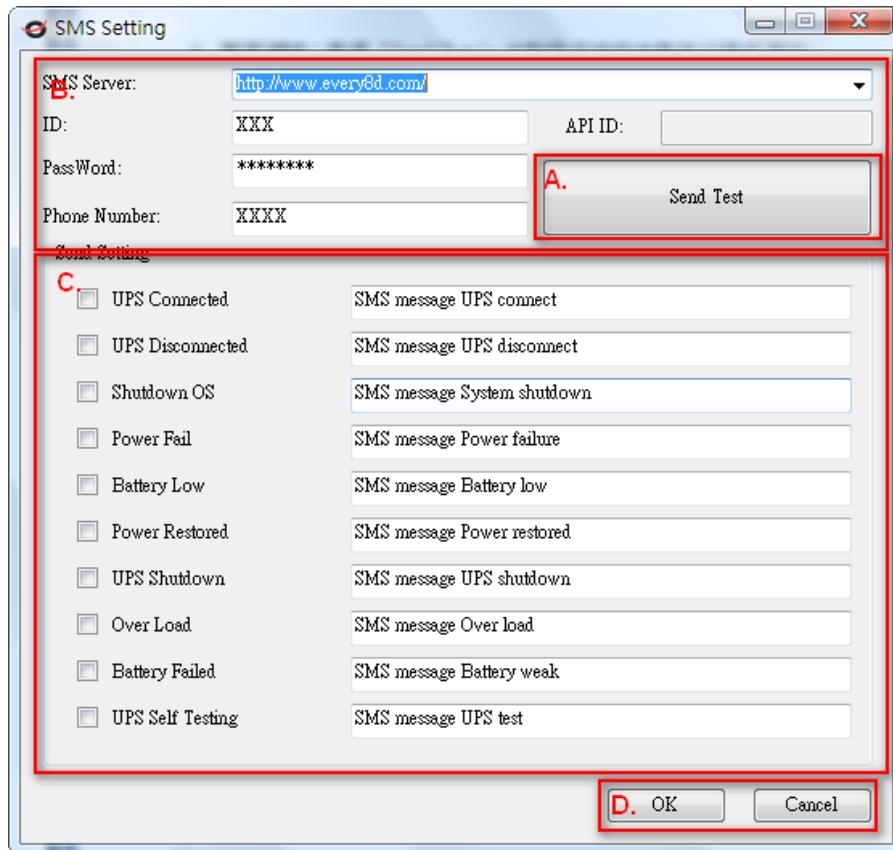
If power recovery, OS shutdown countdown be canceled.



If power recovery, OS shutdown countdown be not canceled.

## 2.4 SMS

An alert message of recorded event will be sent to a predetermined mobile phone number via a subscribed short message service provider.



This SMS function is only available through third-party Short Message Service Providers. To use this function you need to subscribe an account on [every8d] or [clickatell]. These are currently the only 2 third-party SMS providers supported by UPS Utility program. For more information on subscriptions and charges, please go to their respective website as follow:

- 1) For [Every8d] : Go to <http://www.every8d.com/>.

Note: Please subscribe as “Corporate” account in order to use UPS Utility program SMS function.

- 2) For [Clickatell] : Go to <http://www.clickatell.com/>

Note: Payment has to be made to obtain an “api\_id” before use.

**A. Send Test :**

Click to send a test message to confirm the settings.

**B. Account Settings :**

Insert the SMS provided name, ID, passwords, “api-id” (for Clickatell subscriber only) and mobile phone number (international dialing format, include “+” or “00” and country code).

Note: If you want to send message to more than 1 mobile phone number, must use “,” to separate mobile phone numbers.

**C. Event & Message Selections :**

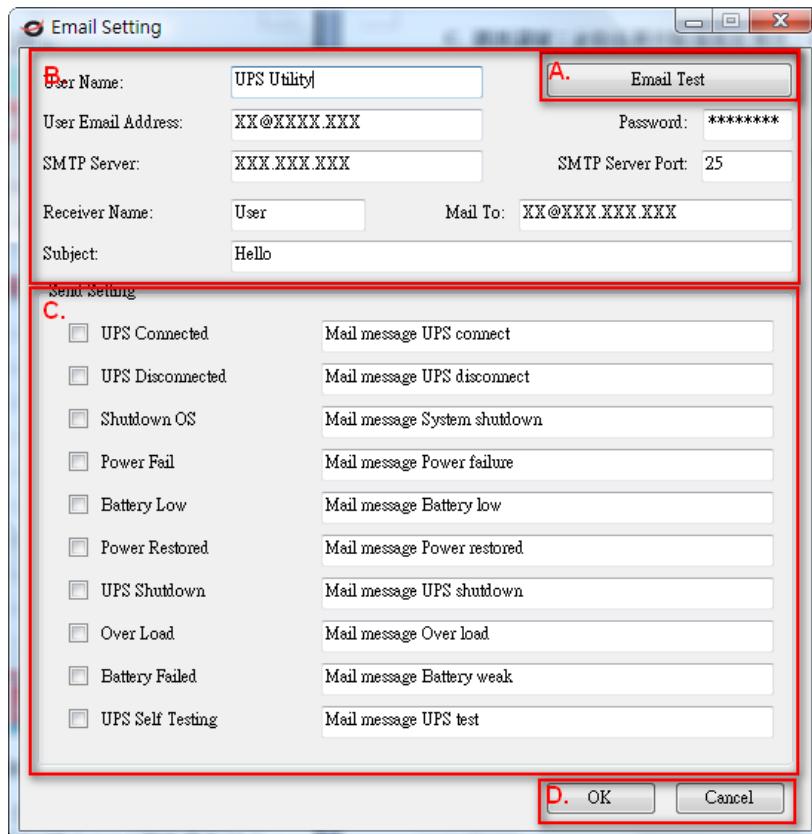
Click to select the desire Events to be broadcasted and the respective message contents (You may change and retype the Message contents to meet your requirement in English).

**D. Save Setting :**

Click “OK” to save & apply settings

Note: Internet Firewall may not allow this SMS function. If you have installed Firewall please allow this function.

## 2.5 E-Mail Settings



### A. Sent Test :

Click to send a test message to confirm the settings are correct.

### B. Account Settings :

Insert the User Name (Sender, e.g. UPS Utility), User Email Address (select a sender email address specifically for this function), Password (the pass word of your email server), SMTP Server (insert SMTP server or IP address), SMTP Server port (port of SMTP Server), Receiver Name (select a predetermined email address the event messages will be sent to), Mail To (Mail address of receiver), and Subject (select a subject name to acknowledge the receiver).

Note: If you want to send email to more than 1 email address, must use ";" to separate email addresses.

**C. Send Setting :**

Click to select the desire Events to be broadcasted and the respective message contents (You may change and retype the Message contents to meet your requirement in English).

**D. Save Setting :**

Click “OK” to save & apply settings.

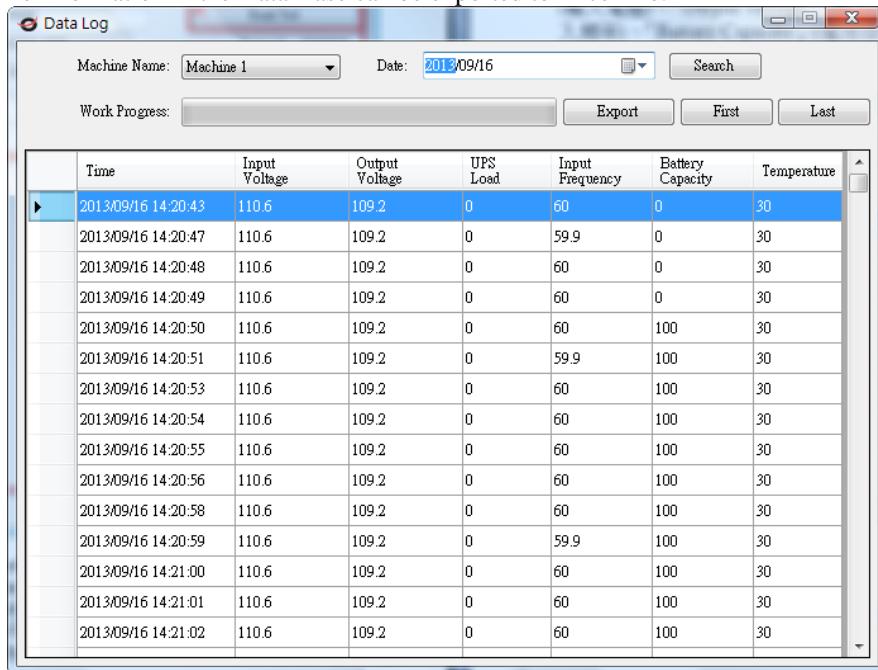
Note: Internet Firewall may not allow this E-Mailing function. If you have installed Firewall please allow this function.

## 2.6 Data Log

The ‘Data Bank’ stores all UPS operating parameters monitored & recorded by the UPS Utility program.

It facilitates the recorded data (include Input Voltage, Output Voltage, Input Frequency, Battery Capacity, Temperature, Load) for a more effective study of the desire information.

The information in the Data Base can be exported to Excel file.



The screenshot shows a Windows application window titled 'Data Log'. At the top, there are dropdown menus for 'Machine Name' (set to 'Machine 1') and 'Date' (set to '2013/09/16'), and a 'Search' button. Below these are buttons for 'Work Progress' (with a progress bar), 'Export', 'First', and 'Last'. The main area is a table with the following columns: Time, Input Voltage, Output Voltage, UPS Load, Input Frequency, Battery Capacity, and Temperature. The table contains 14 rows of data, each representing a measurement taken at 1-second intervals from 14:20:43 to 14:21:02. The data shows a constant input voltage of 110.6 and output voltage of 109.2, with UPS load and input frequency both at 60, battery capacity at 100, and temperature at 30.

	Time	Input Voltage	Output Voltage	UPS Load	Input Frequency	Battery Capacity	Temperature
▶	2013/09/16 14:20:43	110.6	109.2	0	60	0	30
	2013/09/16 14:20:47	110.6	109.2	0	59.9	0	30
	2013/09/16 14:20:48	110.6	109.2	0	60	0	30
	2013/09/16 14:20:49	110.6	109.2	0	60	0	30
	2013/09/16 14:20:50	110.6	109.2	0	60	100	30
	2013/09/16 14:20:51	110.6	109.2	0	59.9	100	30
	2013/09/16 14:20:53	110.6	109.2	0	60	100	30
	2013/09/16 14:20:54	110.6	109.2	0	60	100	30
	2013/09/16 14:20:55	110.6	109.2	0	60	100	30
	2013/09/16 14:20:56	110.6	109.2	0	60	100	30
	2013/09/16 14:20:58	110.6	109.2	0	60	100	30
	2013/09/16 14:20:59	110.6	109.2	0	59.9	100	30
	2013/09/16 14:21:00	110.6	109.2	0	60	100	30
	2013/09/16 14:21:01	110.6	109.2	0	60	100	30
	2013/09/16 14:21:02	110.6	109.2	0	60	100	30

### 2.6.1. Setting Machine Name and date of data



The screenshot shows a search interface with 'Machine Name' set to 'Machine 1' and 'Date' set to '2009/11/26'. There is also a 'Search' button.

Choose the “Machine Name” and “Date”, click “Search” have the further information.

## 2.6.2. Tools

Work Progress:							
	Time	Input Voltage	Output Voltage	UPS Load	Input Frequency	Battery Capacity	Temperature
▶	2009/11/26 09:47:32	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:33	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:34	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:35	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:37	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:38	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:39	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:40	220.1	230.1	100	50	61	30.1

Export : Click to export the current data into “xls” format.

First : Click to go to the first recorded entry.

Last : Click to go to the last recorded entry.

## 2.7 Event log

The “Event Log” provides a list of records of all the events & tasks to be performed by the program and those that had occurred on each day of the particular month. It provides a summary of the Utilities conditions and UPS testing results.

The screenshot shows the 'Event Log' window with the following details:

- Machine Name: All
- Date: 2013/09
- Search button
- Filter section with checkboxes for: UPS Connected, UPS Disconnected, Power Fail, Battery Low, Battery Failed, Self Test, UPS Shutdown, Power Restored, Shutdown OS. Buttons for Select All, Clear, and Filter.
- Work Progress: Export, First, Last buttons.

	Data Time	Machine Name	Event
▶	2013/09/16 14:20:33	Machine 1	UPS Disconnected
	2013/09/16 14:20:42	Machine 1	UPS Connected
	2013/09/16 14:21:48	Machine 1	UPS Shutdown
	2013/09/16 14:21:48	Machine 1	Power Fail
	2013/09/16 14:22:08	Machine 1	Power Restored
	2013/09/16 14:22:45	Machine 1	UPS Shutdown
	2013/09/16 14:22:45	Machine 1	Power Fail
	2013/09/16 14:23:14	Machine 1	Power Restored
*			

### 2.7.1. Setting Machine Name and date of data

Machine Name: All Date: 2009/11 Search

Choose the “Machine Name” and “Date”, click “Search” to have the further information.

## 2.7.2. Filter

Filter

<input type="checkbox"/> UPS Connect	<input type="checkbox"/> UPS Failed	<input type="checkbox"/> Power Restored	<input type="checkbox"/> Select All
<input type="checkbox"/> UPS Disconnect	<input type="checkbox"/> Self Test	<input type="checkbox"/> Shutdown OS	<input type="checkbox"/> Clear
<input type="checkbox"/> Power Fail	<input type="checkbox"/> UPS Shutdown		<input type="checkbox"/> Filter
<input type="checkbox"/> Battery Low	<input type="checkbox"/> Over Load		

Please select or unselect the desire parameters by clicking on the respective parameter field box. Click “Filter” to have further information.

Select All : Field box of all events will be “  ”

Clear : Field box of all events will be “  ”

Filter : Click “Filter” the data will show respectively.

## 2.7.3. Tools

Work Progress			
		Export	First
			Last
▶	Data Time	Machine Name	Event
	2009/11/05 11:02:50	Machine 1	UPS Disconnect
	2009/11/05 11:12:51	Machine 1	UPS Disconnect
	2009/11/05 11:13:39	Machine 1	UPS Disconnect
	2009/11/05 16:19:26	Machine 1	UPS Disconnect
	2009/11/05 16:40:48	Machine 1	UPS Disconnect

Export : Click to export the current data into “xls” format.

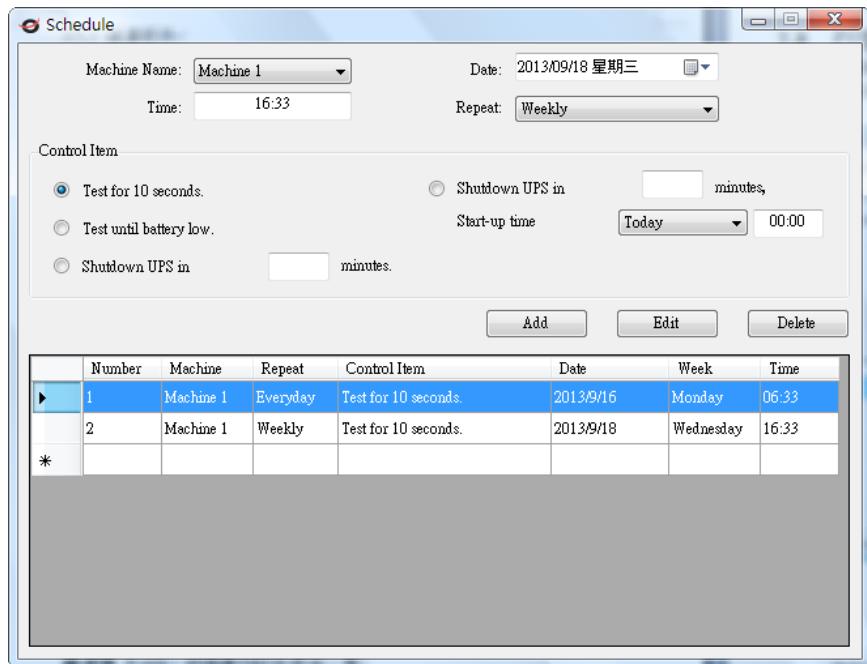
First : Click to go to the first recorded entry.

Last : Click to go to the last recorded entry.

## 2.8 Schedule

“Schedule” allows user to create a desire routine to notify UPS to perform specific or repeatable tasks automatically at predetermined dates & times.

Please refer to the following instructions to create an entry :



### 2.8.1. Setting Machine and time which you want to schedule.

Machine Name:	Machine 1	Date:	2010/02/02 星期二
Time:	00:00	Repeat:	Today

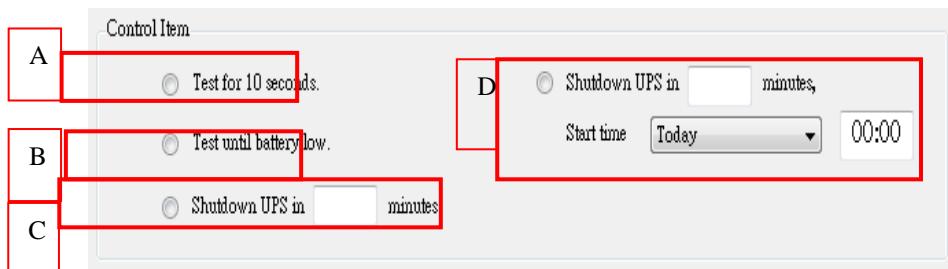
Machine Name : Choose the machine.

Date : Choose the Date.

Time : Time Setting.

Repeat : Set frequency.

## 2.8.2. Control Item



A : Self test for 10 seconds.

B : Self test until battery low.

C : Insert minutes to shutdown the UPS.

D : Insert minutes to shutdown the UPS. The UPS will turn on automatically at the predetermined time.

## 2.8.3. Create, Delete, and Edit the data of Schedule

	Number	Machine	Repeat	Control Item	Date	Week	Time	
▶	1	M1	NO	Test for 10 seconds.	2009/11/27	Friday	00:00	
	2	M1	Everyday	Test for 10 seconds.	2009/11/27	Friday	00:00	
	3	M1	Week	Test for 10 seconds.	2009/11/28	Saturday	00:00	
	4	M1	Month	Test for 10 seconds.	2009/11/30	Monday	00:00	
	...	...	...	...	...	...	...	...

Create : Click “Add” to create a new task.

Edit : Step1. Choose the task from the schedule list, the highlighted blue bar is the chosen task.

Step2. Set Machine and schedule items.

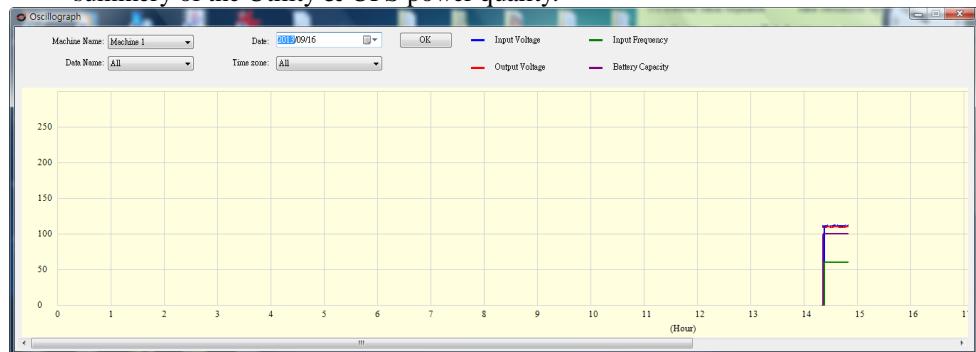
Step3. Click “Edit” to modify your selection.

Delete : Choose the task from the schedule list, the highlighted blue bar is the chosen task.

Click “Delete” to delete the task you choose.

## 2.9 Oscillograph

The “Oscillograph” provides a summarized report of the recorded UPS operating data. The recorded data are represented in line curves to provide an easy to read summary of the Utility & UPS power quality.



### 2.9.1. Tools

Machine Name:	Machine 1	Date:	2009/11/26	OK
Data Name:	All	Time zone:	All	

Machine Name : Choose the machine which you want to show.

Date : Set the date of data you want to show.

Data Name : 5 items can be chosen: “ALL”, “Input Voltage”, “Output Voltage”, “Input Frequency”, “Battery Capacity”.

Time zone : Choose the time interval.

## 2.10 About



Click to confirm version of the UPS Utility software.  
Click “Help” to show this user manual.

*For*  
*Microsoft Windows 2000*  
*Microsoft Windows XP*  
*Microsoft Windows Server 2003*  
*Microsoft Windows VISTA*  
*Microsoft Windows Server 2008*  
*Microsoft Windows 7*  
*Microsoft Windows 8*

***Enjoy the use of your Conceptronic UPS!***